Deflazacort-d7

Cat. No.: HY-13609S1

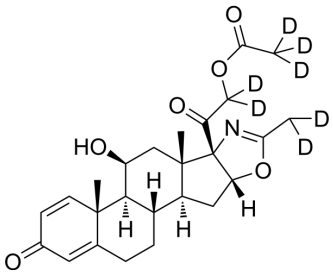
Molecular Formula: $C_{25}H_{24}D_7NO_6$

Molecular Weight: 448.56

Target: Glucocorticoid Receptor; Isotope-Labeled Compounds

Pathway: Immunology/Inflammation; Vitamin D Related/Nuclear Receptor; Others

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Deflazacort-d_7 is the deuterium labeled Deflazacort. Deflazacort, a glucocorticoid, is an inactive proagent and is converted rapidly to the active metabolite 21-desacetyldeflazacort. Deflazacort is used as an anti-inflammatory and immunosuppressant[1].
In Vitro	Stable heavy isotopes of hydrogen, carbon, and other elements have been incorporated into drug molecules, largely as tracers for quantitation during the drug development process. Deuteration has gained attention because of its potential to affect the pharmacokinetic and metabolic profiles of drugs[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Russak EM, et al. Impact of Deuterium Substitution on the Pharmacokinetics of Pharmaceuticals. Ann Pharmacother. 2019;53(2):211-216.

[2]. Mollmann, H., et al., Pharmacokinetic/pharmacodynamic evaluation of deflazacort in comparison to methylprednisolone and prednisolone. Pharmaceutical research, 1995. 12(7): p. 1096-1100.

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